

<b>Notice of Allowability</b>	Application No.	Applicant(s)	
	10/685,853	MCLEOD ET AL.	
	Examiner	Art Unit	
	Ling-Siu Choi	1713	

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 05/18/2005.
2. ☒ The allowed claim(s) is/are 1-16.
3. ☐ The drawings filed on \_\_\_\_\_ are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☐ All    b) ☐ Some\*    c) ☐ None    of the:
    1. ☐ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  6. ☐ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
    - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
      - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
    - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

- |   |  |
|---|--|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892)  | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)            |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                | 6. <input type="checkbox"/> Interview Summary (PTO-413),<br>Paper No./Mail Date _____. |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),<br>Paper No./Mail Date _____ | 7. <input type="checkbox"/> Examiner's Amendment/Comment                               |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit<br>of Biological Material          | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance   |
|   | 9. <input type="checkbox"/> Other _____.   |

**DETAILED ACTION**

1. This Office Action is in response to the Response filed May 18, 2005. Claims 17-23 were canceled and claims 1-16 are now pending.

***Allowable Subject Matter***

2. Claims 1-16 are allowed.
3. The following is an examiner's statement of reasons for allowance:

The present claims are allowable over the closest references: Rowland et al. (US 6,114,486).

A polyethylene film formed from a modified polyethylene which is prepared by treating	
polyethylene	MI 2.16 = about 0.10 to about 7.0 and
	<b>Mw/Mn = 3 to 7</b>
to increase long chain branching by an amount sufficient	
to decrease the rate at which water vapor passes through a film of the modified polyethylene as	
compared to a similar film of the unmodified polyethylene	

(summary of claim 1)

Rowland et al. disclose that a modified ethylene polymer is obtained by treating an ethylene polymer with an organic peroxide to increase the molecular weight distribution and/or the melt flow ratio, but less than the amount causing more than 0.5 wt% gel formation, wherein

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the ethylene polymer has melt index at least about 0.1 gm/10 minutes; the molecular weight distribution (**Mw/Mn**) of **about 2**; and  $I_{10} / I_2$  ratio at least about 5.63 and is obtained in the presence of a Ziegler Natta catalyst (col. 7, lines 35-37; col. 10, lines 3-17; col. 13, lines 10-29; col. 21, lines 12-25; Table 1). However, Rowland et al. do not teach or fairly suggest a polyethylene film formed from a modified polyethylene which is prepared by treating a polyethylene having MI 2.16 = about 0.10 to about 7.0 and **Mw/Mn = 3 to 7** to increase long chain branching by an amount sufficient to decrease the rate at which water vapor passes through a film of the modified polyethylene as compared to a similar film of the unmodified polyethylene.

In light of the above discussion, it is evident as to why the present claims are patentable over the prior art.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

### ***Conclusion***

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ling-Siu Choi whose telephone number is 571-272-1098.

If attempt to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Wu, can be reach on 571-272-1114.

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**LING-SUI CHOI**  
**PRIMARY EXAMINER**

June 5, 2005